

17/07/06-19:32

1 US 08/809,620 (TE20060717a)
Goulven VERNOIS - Reply to Action 02/16/06

Goulven VERNOIS
8, sentier des Laminaires
56610 ARRADON
France

Arradon on July 16, 2006

→ *Cassandra*
SPYROU
3/15

5 Tel 33 2 97 44 07 11
Fax 33 2 97 61 11 27

RECEIVED
CENTRAL FAX CENTER
MAY 04 2009

vernois.5678@wanadoo.fr

Commissioner of Patent
Mr. Thong Q. Nguyen
Art Unit 2872
Via fax 571-273-8300

10

APPLICATION 08/809,620**OPTICAL DEVICE - Reply to the Office Action Summary mailed on**15 **February 16, 2006****Mr. Thong Q. Nguyen Examiner - Art Unit 2872**

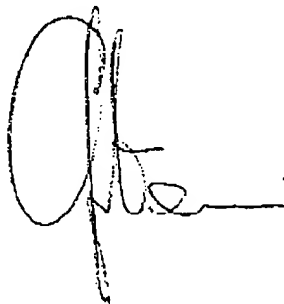
Dear Sir,

20 I think with you that a substitute specification under 37 CFR 1.121 (b)(3) is very appropriate to achieve the application concerning the optical device..

I reply strictly with regard to optical device constituted by a membranous mirror, its actuating membrane, and the electromagnetic field binded to axis of the telescope and allowing the rough chaping of the actuating membrane.

25 The folding of the mirror and of the actuating membrane, absolutely essential to put in orbit this optical device as soon as it is large, is inseparable of this optical device, and inserted in spécification and claims.

30



35

17/07/06-19:32

1 US 08/809,620 (TE20060717a)
Goulven VERNOIS - Reply to Action 02/16/06

17/07/06-19:32

2

US 08/809,620 (TE20060717a)

Goulven VERNOIS - Reply to Action 02/16/06

OPTICAL DEVICE

Cassandra
SPYROU
4/15

- I - New abstract
- II Substitute specification under 37 CFR 1.121 (b)(3)
 - a) Instruction
 - b) Statement
- III - Amended claims under 1.121
- IV - Amended drawings under 1.121 (d)
- V - Claims listing
- VI - Working document for substitute specification showing no new matter

10

On the detailed action mailed March 16, 1999, the Examiner determines the Groups I, II, III, IV.

15

Unfortunately, the description of the optical device comprising membranous mirror, its separate actuating membrane, and magnetic field tied to telescope, was scattered in several of the Groups I, II, III, IV.

To simplify, I take in account a Group A strictly with regard to :

- a) the optical device constituted by the membranous mirror and its actuating membrane, allowing a micro control of the shape of the mirror,
- b) the magnetic field tied to the telescope and allowing the macro control of the shape of the actuating membrane, the existence of these two control levels being an essential and fundamental difference with former art (Andrea Theodoro Augoustini, GB 2 247 323 A)
- c) the folding of the mirror and of the actuating membrane.

I do not take in account the manufacturing of these membranes
 As peripheral or central ruffles are not essential, they are canceled.

- 25 To make the drawings in appropriateness with the new description, this drawings are cleaned of all parasitic elements, but, on the other hand, coil 72 of the former PCT Fig 1, producing magnetic field tied to telescope will be put in new Fig 1, with dipole 142 of former PCT Fig 43 having the same function.

30 On this manner, the new Figure 1 is very expressive of the claimed invention.

The new specification that I am invited to write under 37 CFR 1.121 (b)(3) and 1.125 (a), (b), (c), is only in relation with this Group A.

35 For more explanations about folding of the membranes, the Applicant respectfully invites the Examiner to read the US Patent 6,676,262 B1.

17/07/06-19:32

2

US 08/809,620 (TE20060717a)

Goulven VERNOIS - Reply to Action 02/16/06

17/07/06-19:32

3

US 08/809,620 (TE20060717a)

Goulven VERNNOIS - Reply to Action 02/16/06

- 1 -

NEW ABSTRACT

*Cassandra SPYROU**5/15*

Telescope opical device constituted by a concave mirror 1, a concave
actuating membrane 2, and magnetic dipoles 3 and 4 tied to the telescope;
the actuating membrane 2 microshapes the membranous mirror 1, and the
5 magnetic dipoles 3 and 4 macroshape the actuating membrane 2.
Folding of the mirror 1 and of the actuating membrane 2 by regular
distortions of the original conc^ave shape.

10

15

20

25

30

35

17/07/06-19:32

3

US 08/809,620 (TE20060717a)

Goulven VERNNOIS - Reply to Action 02/16/06

17/07/06-19:32

4 US 08/809,620 (TE20060717a)
Goulven VERNOIS - Reply to Action 02/16/06

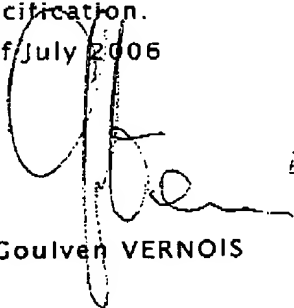
- II - Substitute specification under 37 CFR 1.121 (b)(3)

Cassandra
SPYROU
6/15

a) Instruction

5 **Application 08/809,620**
Goulven VERNOIS**INSTRUCTION TO REPLACE THE SPECIFICATION**
37 CFR § 1.121 (3) (i)10 I, Goulven VERNOIS, declare that the former specifications must be replaced
by the present substitute specification.Arradon, on the 15th of July 2006

15


Goulven VERNOIS

20

25

30

35

17/07/06-19:32

4 US 08/809,620 (TE20060717a)
Goulven VERNOIS - Reply to Action 02/16/06

17/07/06-19:32

5 US 08/809,620 (TE20060717a)
Goulven VERNOIS - Reply to Action 02/16/06

- II - Substitute specification under 37 CFR 1.121 (b)(3)

Cassandra
SPYROU

b) Statement

RECEIVED
CENTRAL FAX CENTER
MAY 04 2009

7/15

5

Application 08/809,620
Goulven VERNOIS

10

STATEMENT THAT THE SUBSTITUTE SPECIFICATION DOES NOT
INCLUDE NEW MATTER - 37 CFR 1.125 (b)I, Goulven VERNOIS, declare that the present substitute specification does
not include new matter.15 This declaration is made with the knowledge that willful false statement and
the like so made is punishable by fine or imprisonment, or both, under
section 1001 of title 18 of the United States Code and that such willful false
statement may jeopardize the validity of the application or any patent issued
thereon.20 Arradon, on the 15th of July 2006
Goulven VERNOIS

25

30

35

17/07/06-19:32

5 US 08/809,620 (TE20060717a)
Goulven VERNOIS - Reply to Action 02/16/06